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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION N
10/655,985	09/05/2003	Guoming G. Zhu	46107-0091 8945	
759	90 11/08/2006		EXAMINER	
Douglas A. Mullen			NGHIEM, MICHAEL P	
Dickinson Wright PLLC Suite 800			ART UNIT	PAPER NUMBER
1901 L Street, N.W. Washington, DC 20036			2863	
			DATE MAILED: 11/08/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
Office Action Court		10/655,985	ZHU ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Michael P. Nghiem .	2863				
Period fo	- The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address				
WHIC - Exten after S - If NO - Failure Any re	DRTENED STATUTORY PERIOD FOR REPLY HEVER IS LONGER, FROM THE MAILING DASIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, eply received by the Office later than three months after the mailing d patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on <u>06 Se</u>	eptember 2006.	-				
_							
3)							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition	on of Claims						
4)🖂	Claim(s) <u>2-9,11-14,16,17,19 and 20</u> is/are pend	ding in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
)⊠ Claim(s) <u>13,14,16,17,19 and 20</u> is/are allowed.						
· _	Claim(s) <u>2-9,11 and 12</u> is/are rejected.						
	Claim(s) is/are objected to.						
	Claim(s) are subject to restriction and/or	r election requirement.					
Application	on Papers	·					
9)□ 7	The specification is objected to by the Examine	r.					
10) 🔲 🗆	The drawing(s) filed on is/are: a) ☐ acce	epted or b) objected to by the B	Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).				
11) 🔲 🛚	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents						
	2. Certified copies of the priority documents	• •					
	3. Copies of the certified copies of the prior	•	ed in this National Stage				
	application from the International Bureau	· · · · · · · · · · · · · · · · · · ·					
* S	ee the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment	•						
· <u>- · · · </u>	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da	· ·				
	nation Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal P					
	No(s)/Mail Date	6) Other:	•				

DETAILED ACTION

The Amendment filed on September 6, 2006 has been acknowledged.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 2-9, 11, and 12 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The claims do not produce any tangible results. The practical application of the claimed invention cannot be realized until the information determined is conveyed to the user. For the result to be tangible, it would need to outputted to a user or displayed to a user or stored for later use. The result of detecting an open secondary winding (claims 3, 11) are not outputted or displayed to a user or stored for later use. Hence, the claims are treated as non-statutory functional descriptive material (see MPEP 2106).

Allowable Subject Matter

Claims 13, 14, 16, 17, 19, and 20 are allowed.

Reasons For Allowance

The combination or method as claimed wherein an arrangement of a controller and a timer between two comparators (claim 13) or a powertrain control module having an input operably connected to said output of said comparator and an output operably connected to said enable input of said integrator (claim 17) is not disclosed, suggested, or made obvious by the prior art of record.

Response to Arguments

Applicant's arguments filed on September 6, 2006 have been fully considered but they are not persuasive.

With respect to the 35 USC 101 rejection, Applicant argues that the claimed process is clearly statutory if it involves manipulation of data representing physical objects or activities. The claimed process involves manipulation of data that represents the physical activity of the combustion in a combustion chamber. Applicant further argues that the limitation in claims 3 and 11 reading "setting an open secondary flag" comprise storing the result of the process.

Examiner's position is that according to the Interim Guidelines, "... the tangible requirement does require that the claim must recite more than a Sec. 101 judicial exception, in that the process claim must set forth a practical application of that Sec. 101 judicial exception to produce a real-world result. Benson, 409 U.S. at 71-72, 175

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USPQ at 676-77 (invention ineligible because had "no substantial practical application.")." (see page 11, Interim Guidelines). In order for the real-world result to be realized, the end result would need to be conveyed to the user. In other words, the result of detecting an open secondary winding would need to outputted to a user or displayed to a user or stored for later use by a user.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Contact Information

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Michael P Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-H.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL NGHIEM V PRIMARY EXAMINER

Michael Nghiem

November 6, 2006